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(54) **TRIGGER AGENTS IN VIDEO STREAMS FROM DRONES**

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CPC **B64C 39/024** (2013.01); **B64C 27/08** (2013.01); **B64D 47/08** (2013.01); **G05D 1/101** (2013.01); **B64C 2201/128** (2013.01)

(58) **Field of Classification Search**
None

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2016/0116915	A1 *	4/2016	Pulleti	.....	G01S 13/56701/3
2016/0239803	A1 *	8/2016	Borley	.....	G06Q 10/0833
2016/0253908	A1 *	9/2016	Chambers	.....	G08G 5/0069701/2
2016/0301859	A1 *	10/2016	Tebay	.....	G05D 1/0094
2016/0306356	A1 *	10/2016	Tebay	.....	G05D 1/0094
2016/0307447	A1 *	10/2016	Johnson	G01C 21/00
2017/0011333	A1 *	1/2017	Greiner	G06Q 10/083

* cited by examiner

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(57) **ABSTRACT**

Techniques are provided for analyzing data obtained while delivering items with unmanned aerial vehicles. For example, instructions may be provided to an unmanned aerial vehicle to deliver an item. The unmanned aerial vehicle may be configured to record data while delivering the item. In embodiments, the captured data may be received by a computer system and properties about a destination for the delivery may be identified by analyzing the data. A recommendation may be generated based at least in part on the identified properties.

17 Claims, 10 Drawing Sheets

